#### **FACT SHEET**

#### Pavement Rehabilitation (CAPM) **Contra Costa County**

Project EA:

04-26980K (Project ID 0412000159)

**Project Location:** 

In Contra Costa County in the city of Concord on Route 242 from Route 680 (PM R0.00)

to Route 4 (PM R3.40)

Project Description:

Replace the failed PCC with 3<sup>rd</sup> stage cracks, repair spalls, seal cracks, grind the whole width of the PCC pavement, repair failed outside shoulders, overlay on-ramps and offramps with AC, improve drainage work, install Metal Beam Guard Rails, remove and replace Type A dikes with Type E dikes at specific locations, upgrade curb ramps and pedestrian facilities to ADA standards, bring the existing bridge railings on bridges within the project limits to current standard, and replace bridge approach slabs.

Purpose and Need:

Need:

The need for this project is to improve the poor condition of the existing facilities and

improve safety.

Purpose:

The purpose of this project is to provide preventive treatments to preserve the good condition of the existing roadway pavement and to provide pavement rehabilitation to

extend its service life.

**Sponsor Agency:** 

Caltrans - Maintenance/Traffic Safety

**Fund Sources:** 

SHOPP 201.121

Type of PID:

**PSSR** 

**Environ Doc:** 

PEAR

Project Capital Cost (estimated current year): Approximately \$9.95 million (without support cost)

**Current Status:** 

The Office of Advance Planning is "refreshing" a Project Scope Summary Report (PSSR) which was approved on October 2, 2001 to provide updates on the project scope, schedule, and cost estimates in order for this PSSR to be programmed in the SHOPP

2012 cycle, under the 201.121 program (CAPM).

**Outstanding Issues:** 

No outstanding issues.

**Tentative Schedule:** 

PSSR Approval	09/16/2011
PA&ED	07/01/2013
District PS&E	07/01/2015
RTL	11/01/2015
Approve Contract	03/01/2016
Contract Acceptance	03/01/2017
End Project	09/01/2017

Responsible Unit (Lead): Yadollah Fathollahi

- Project Manager

(510) 286-6018

Robert Blanco

- Branch Chief, PSR II

(510) 286-5676

Jonathan Dang

- Project Engineer

(510) 622-5963

Updated: 9/16/2011 Prepared By: JD

# 04-CC-242-PM 0.0/3.4

BRIDO	PSSR REFRESHER ENT REHABILITATION (EA 26980K, BE REHABILITATION (EA 3G691K, S. CAPITAL AND SUPPORT COSTS ES	HOPP 201.110)	Y
PRELIM	INARY PROJECT COST ESTIM	ATE SUMMARY	7
		CURRENT COST	Г
	Approved PSSR	PSSR	Г
	10/2/2001	Refresher	
		9/9/2011	N

PRELIMINARY PROJECT COST ESTIMATE SUMMARY						
	Approved PSSR			TED COST Mid-Year		
	10/2/2001	Refresher	RTL	Construction		
	10/2/2001	9/9/2011	November 2015	September 2016		
I. ROADWAY ITEMS						
Section 1 - Earthwork						
Develop Water Supply		\$20,000	\$23,000	\$24,000		
Clearing & Grubbing		\$20,000	\$23,000	\$24,000		
Section 2 - Pavement Structural Section						
Replace Concrete Pavement (Rapid Strength Concrete)		\$648,000	\$738,000	\$766,000		
Reserve 10% add'l fund of PCC slabs replacem't for CTB layer per		004.000		677.000		
Materials Recommendation Replace Bridge Approach Slabs w/ RSC		\$64,800 \$720,000	\$74,000 \$820,000	\$77,000 \$851,000		
Hot Mix Asphalt (Type A)		\$1,103,200	\$1,257,000	\$1,303,000		
Rubberized Hot Mix Asphalt (Gap Graded)		\$1,243,550	\$1,417,000	\$1,469,000		
Aggregate Base (Class 2)	7	\$22,000	\$25,000	\$26,000		
AC Overlay of AC Pavement (recycle not included)	\$1,314,000					
Reconstruct Lane(s) - Outside Shoulders	\$450,000					
Shoulder Backing PCC Pavement Rehabilitation (Work	\$332,000		ļ			
Type: Replace failed slabs and grind PCC slabs)	\$2,201,000					
Ramps and OC/UC Approaches	\$800,000					
STRAIN Work (Concord OH Br No 28-186)	\$650,000					
Section 3 - Drainage						
Misc Drainage Rehabilitation		\$100,000	\$114,000	\$118,000		
Drainage Rehab (Work Type: roadside, offsite,)	\$400,000					
Section 4- Specialty Items Upgrade ADA Curb Ramps		\$80,000	\$01,000	\$05,000		
Upgrade ADA Traffic Islands		\$6,000	\$91,000 \$7,000	\$95,000 \$7,000		
Resident Engineer's Office Space		\$90,000	\$103,000	\$106,000		
Construction Site Best Management Practices		\$20,000	\$23,000	\$24,000		
Cold Plane AC Pavement		\$262,650	\$299,000	\$310,000		
Remove Concrete (Mainline PCC Slabs)		\$75,600	\$86,000	\$89,000		
Remove Concrete (Bridge Approach Slabs)		\$42,000	\$48,000	\$50,000		
Grind Existing Concrete Pavement		\$605,430	\$690,000	\$715,000		
Environmental Compliance		\$15,000	\$17,000	\$18,000		
Section 5 - Traffic Items	2222 222					
Traffic Control Systems Transportation Management Plan (TMP), COZEEP Included	\$200,000	\$250,000	\$285,000	\$295,000		
Transportation Management Plan (TMP), COLEEP Included Transportation Management Plan (TMP)	\$100,000	\$330,000	\$376,000	\$390,000		
COZEEP	\$200,000					
Roadside signs	3200,000	\$10,000	\$11,000	\$12,000		
Striping (Remove & New)	\$60,000	\$120,000	\$137,000	\$142,000		
Misc Electrical Items (ADA Curb Ramps)		\$25,000	\$28,000	\$30,000		
Section 6 - Planting and Irrigation						
Highway Planting		\$5,000	\$6,000	\$6,000		
Replacement Planting		\$5,000	\$6,000	\$6,000		
Section 7 - Roadside Management and Safety Section  Remove Metal Beam Guard Railing (MBGR)		615.040	#10.000	\$10,000		
Reconstruct Metal Beam Guard Railing (MBGR)		\$15,840 \$32,800	\$18,000 \$37,000	\$19,000 \$39,000		
Metal Beam Guard Railing (Wood Post)	\$33,000	\$140,400	\$160,000	\$166,000		
Alternative Flared Terminal System (Type SRT)	\$55,000	\$7,500	\$9,000	\$9,000		
Replace AC Dike (Type A toType E)	\$45,000	\$80,000	\$91,000	\$95,000		
Place AC Dike (Type F)		\$35,100	\$40,000	\$41,000		
Miscellaneous Paving		\$20,000	\$23,000	\$24,000		
Erosion Control		\$10,000	\$11,000	\$12,000		
Relocation/Removing Misc Roadside Items		\$15,000	\$17,000	\$18,000		
Roadside Cleanup	\$25,000					
Gore Cleanup	\$50,000					
II. STRUCTURES ITEMS						
TOTAL STRUCTURES ITEMS	\$0	\$0				
SUBTOTAL Section 1-7	\$6,860,000	\$6,240,000	\$7,111,000	\$7,372,000		
Section 8 -Minor Items (10% of Subtotal Section 1-7)		\$624,000	\$711,000	\$737,000		
Section 9 - Roadway Mobilization (10% of Summation of Subtotal		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
Section 1-7 & Section 8 Minor Items)	\$686,000	\$686,400	\$782,000	\$811,000		
Section 10 - Roadway Additions (10% of Summation of Subtotal						
Section 1-7 & Section 8 Minor Items)		\$686,400	\$782,000	\$811,000		
Contingency				** **		
(25% of Summation of Subtotal Section 1-7 & Section 8 Minor Items) TOTAL ROADWAY ITEMS (Sections 1-10)	\$1,715,000	\$1,716,000	\$1,955,000	\$2,027,000		
TOTAL ROADWAT ITEMS (SECTIONS 1-10)	\$9,261,000	\$9,953,000	\$11,342,000	\$11,758,000		
I. RIGHT OF WAY ITEMS				1/4		
TOTAL RIGHT OF WAY	\$0	\$5,000	\$5,000	\$5,000		
TOTAL DROVECT CARITAL OUTLAN COSTS	£0.261.000	£0.050.000	611 242 000	Ø11 750 AAA		
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$9,261,000	\$9,958,000	\$11,342,000	\$11,758,000		

04-CC-242-PM 0.00/3.40

PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

SHOPP 201.121

PAVEMENT REHABILITATION

Project Description: Pavement Rehab	pilitation	7
Limits: In Contra Costa County in the ci	ity of Concord on Route 242 from Route 68	30 to Route 4
Proposed Improvements: replace the failed	d PCC with 3rd stage cracks, repair spalls, C pavement, repair failed outside shoulders	
with AC, improve drainage work with Type E dikes at specific loc	k, install Metal Beam Guard Rails, remove cations, upgrade curb ramps and pedestrian lings on bridges within the project limits to	and replace Type A dikes facilities to ADA standards,
Alternate: None		
TOTAL ROADWAY ITEMS		\$ 9,952,000
TOTAL STRUCTURE ITEMS		<u>s</u> 0
SUBTOTAL CONSTRUCTION	COSTS	\$ 9,952,000
TOTAL RIGHT OF WAY ITEMS		\$ 5,000
TOTAL PROJECT CAPITAL OU	JTLAY COSTS	\$ 9,957,000

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PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

**SHOPP 201.121** 

**PAVEMENT REHABILITATION** 

#### I. ROADWAY ITEMS

Section 1 - Earthwork	Quantity	Unit	τ	Jnit Price	It	em Cost	Section Cost
Roadway Excavation	-		\$	_	\$	-	
Imported Borrow	0 <del>-</del>	_	\$		\$		
Develop Water Supply	1	LS	\$	20,000	\$	20,000	
Top Soil Reapplication		_	\$	-	\$	-	
Clearing & Grubbing	1	LS	\$	20,000	.\$	20,000	
Rounding (Contour Grading)	24 200 <del>-</del>	_	\$	_	\$		

Subtotal Section 1 Earthwork \$ 40,000

Section 2 - Pavement Structural Section	Quantity	Unit	Unit Price	Item Cost	Section Cost
Replace Concrete Pavement (Rapid Strength Concrete)	1,080	<u>CY</u>	\$ 600	\$ 648,000	
Reserve 10% add'l fund of PCC slabs replacem't for CTB layer per Materials Recommendation	LS	LS	\$ <u>-</u>	\$ 64,800	
Replace Bridge Approach Slabs w/ RSC	600	CY	\$ 1,200	\$ 720,000	
Hot Mix Asphalt (Type A)	13,790	TON	\$ 80	\$ 1,103,200	
Rubberized Hot Mix Asphalt (Gap Graded)	13,090	TON	\$ 95	\$ 1,243,550	
Cement-Treated Base	_	-	\$ -	 _	
Aggregate Base (Class 2)	220	<u>CY</u>	\$ 100	\$ 22,000	
Pavement Reinforcing Fabric	_	_	\$ _	\$ -	

Subtotal Section 2 Pavement Structural Section \$ 3,801,550

Section 3 - Drainage	Quantity	Unit	Unit Price	Item Cost	Section Cost
Misc Drainage Rehabilitation	<u>LS</u>	<u>LS</u>	\$ 100,000	\$ 100,000	

\*Subtotal Section 3 Drainage (Lump Sum) \$ 100,000

<sup>\*</sup> For Planning purposes lump sum amounts provided by Hydraulics Department

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PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

**SHOPP 201.121** 

**PAVEMENT REHABILITATION** 

Section 4- Specialty Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
Upgrade ADA Curb Ramps	<u>16</u>	<u>EA</u>	\$ 5,000.0	\$ 80,000	
Upgrade ADA Traffic Islands	<u>2</u>	<u>EA</u>	\$ 3,000.0	\$ 6,000	
Resident Engineer's Office Space	<u>1</u>	<u>LS</u>	\$ 90,000	\$ 90,000	
Construction Site Best Management Practices	1	<u>LS</u>	\$ 20,000	\$ 20,000	
Cold Plane AC Pavement	<u>175,100</u>	SQYD	<b>\$</b> 1.5	<u>\$ 262,650</u>	
Remove Concrete (Mainline PCC Slabs)	<u>1,080</u>	<u>CY</u>	<b>\$</b> 70	\$ 75,600	
Remove Concrete (Bridge Approach Slabs)	<u>600</u>	<u>CY</u>	<u>\$ 70</u>	\$ 42,000	
Grind Existing Concrete Pavement	<u>86,490</u>	<u>SQYD</u>	<b>\$</b> 7.0	\$ 605,430	
Environmental Compliance	1	LS	\$ 15,000	\$ 15,000	

Total Section 4 Specialty Items \$ 1,196,680

Section 5 - Traffic Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
Traffic Control Systems	1	<u>LS</u>	\$ 250,000	\$ 250,000	
Transportation Management Plan (TMP), COZEEP Included	<u>1</u>	<u>LS</u>	\$ 330,000	\$ 330,000	
Roadside signs	<u>1</u>	<u>LS</u>	\$ 10,000	\$ 10,000	
Striping (Remove & New)	<u>1</u>	<u>LS</u>	\$ 120,000	\$ 120,000	
Misc Electrical Items (ADA Curb Ramps)	1	<u>LS</u>	\$ 25,000	\$ 25,000	

Subtotal Section 5 Traffic Items \$

Section 6 - Planting and Irrigation	Quantity	Unit	Unit Price	Item Cost	Section Cost
Highway Planting	1	<u>LS</u>	\$ 5,000	\$ 5,000	
Replacement Planting	1	<u>LS</u>	\$ 5,000	\$ 5,000	
Irrigation Modification	<u>0</u>	<u>LS</u>	<u> -</u>	<u>\$ -</u>	
Relocate Existing Irrigation Facilities	<u>0</u>	<u>LS</u>	<u>\$</u>	<u>\$ -</u>	

Subtotal Section 6 Planting and Irrigation \$ 10,000

## Section 7 - Roadside Management and

Safety Section	Quantity	Unit	Unit Price	Item Cost	Section Cost
Remove Metal Beam Guard Railing (MBGR)	1760	<u>LF</u>	\$ 9.0	\$ 15,840	
Reconstruct Metal Beam Guard Railing (MBGR)	<u>1640</u>	<u>LF</u>	<b>\$</b> 20.0	\$ 32,800	
Metal Beam Guard Railing (Wood Post)	<u>7020</u>	<u>LF</u>	\$ 20.0	\$ 140,400	
Alternative Flared Terminal System (Type SRT)	<u>3</u>	<u>EA</u>	<u>\$ 2,500.0</u>	\$ 7,500	
Replace AC Dike (Type A toType E)	<u>LS</u>	<u>LS</u>	\$ 80,000	\$ 80,000	
Place AC Dike (Type F)	<u>7020</u>	<u>LF</u>	\$ 5.0	\$ 35,100	
Miscellaneous Paving	<u>1</u>	<u>LS</u>	\$ 20,000	\$ 20,000	
Erosion Control	1	<u>LS</u>	\$ 10,000	\$ 10,000	
Relocation/Removing Misc Roadside Items	1	<u>LS</u>	\$ 15,000	\$ 15,000	

Subtotal Section 7 Roadside Management and Safety Section \_\$\_\_\_ 356,640

> **SUBTOTAL SECTIONS 1-7 \$** 6,239,870

> > Use \$ 6,240,000

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PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

SHOPP 201.121

**PAVEMENT REHABILITATION** 

Section 8 - Minor Items					Unit Cost	Se	ction Cost
Subtotal Section 1-7		\$	6,240,000	x 10% =	\$ 624,000		
				Subtotal Section 8	Minor Items	<i>s</i>	624,000
Section 9 - Roadway Mo	<u>bilization</u>						
Subtotal Section (1-7)		\$	6,240,000				
Minor Items (8)		\$	624,000				
Sum (1-8)			6,864,000	_ x 10% =	\$ 686,400	-	
			Subtotal	Section 9 Roadway	Mobilization	<u>\$</u>	686,400
Section 10 - Roadway Ac	<u>Iditions</u>						
Supplemental Work							
Subtotal Sections (1-7)		\$	6,240,000				
Minor Items (8)		\$	624,000	_			
Sum (1-8)		\$	6,864,000	x 10% =	\$ 686,400	•	
Contingencies							
Subtotal Sections 1-7		\$	6,240,000				
Minor Items (8)	•	\$	624,000				
Sum		\$	6,864,000	-	\$ 1,716,000		
			Subtot	al Section 10 Roady	vay Additions		2,402,000
		то	TAL ROA	DWAY ITEMS (S	ections 1-10)	\$	9,952,000
Estimate Prepared by:	JONATHAN DANG		Phone	: 622-5963	Date:	9,	19/2011
Estimate Checked by:	HOA DANG		Phone	: 622-1674	Date:	9/	19/2011

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PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

**SHOPP 201.121** 

**PAVEMENT REHABILITATION** 

#### II. STRUCTURES ITEMS

			Co	est	
	Unit	Structure 1	Structure 2	Structure 3	Structure 4
Tie-Back Wall		-	<del>-</del>		
Structure Type	LS	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Structure Widening	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Concrete Removal	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Reinforced Concrete	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Shotcrete	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Tiebacks	LS	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Structure Replacement		EJ 1	—		
<del>-</del>		\$0	<i>\$0</i>	\$0	\$0
Total Cost Per Structure					

\* - Includes 10% mobilization and 25% contingency

\$0

Subtotal Structures Items

<u>\$0</u>

Railroad Related Costs

<u>\$0</u>

Subtotal Railroad Items

0

# \*TOTAL STRUCTURES ITEMS - (Sum of Structures plus Railroad Items)

Comments:

<sup>\*</sup> This amount is the total cost of structures including 10% mobilization and 25% contingency.

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PROJECT ID 0412000159 (EA 26980K)

PSSR "REFRESHER"

SHOPP 201.121

PAVEMENT REHABILITATION

#### III. RIGHT OF WAY ITEMS

	Current Values (Future Use)			Escalation Rates	E	scalated Values
	\$	5,000	-	-	\$	5,000
Utility Relocation (State Share)	\$	0			\$	0
Tittle and Escrow Fees Acquisition, including Execss Lands	\$	0			\$	0
TOTAL RIGHT OF WAY	\$	5,000		,	\$	5,000

CEM-4801 (REV 11/1992) CT# 7541-3520-0

REAT OLDERTO COSTS FEST   20980K   1000/1000/	JOB STAMP	ITEM FILE NO.
CA-CC-242-PM 0.0/3.4  DATE 9/16/2011  CHERY  J. DANIG  CHERY  WAS USED:  PARED: 71/2012 > 71/2013: 1 YEAR  - PER UNDATED PEAR DATED 9/19/2011:  TOTAL PRODESTED HOURS = 2619 HRS  = 1.5 PY'S  - LEAD P.E. = 2.0 PY'S  - ASSIST. PE. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (70/30)  - FUNCTIONAL UNITS (70/30)  - POT MTG'S = (12 MTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  (8 HRS) (10 UNITS)  = 120 HRS  = 120 HRS    CO'. PEVIEW = (8) (10) + 6(10) = 240 HRS      CO'. PEVIEW = (8) (10) + 6(10) = 240 HRS      COIL PROPERTY   100      COIL PROPERTY   100      COIL PEVIEW = (8) (10) + 6(10) = 240 HRS      COIL P		PROJ. SUPPORT COSTS EST. 26980K
DATE J. DANKS  CHK 89'  ** ASSUME "HOURLY METHOD" WAS USED:  PARED: 71/2012 > 71/2013: 1 YEAR  - PER UNDATED PEAR DATED 9/16/2011:  TOTAL REQUESTED HOURS = 2619 HRS  = 1.15 PY'S  - LEAD P.E. = 2.0 PY'S  - ABSIST. PE. = 1.0 PY  TOTAL SHOWLY METHOD "WAS USED:  - ABSIST. PE. = 1.0 PY  TOTAL PEOLESTED HOURS = 2619 HRS  - LEAD P.E. = 2.0 PY'S  - ABSIST. PE. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (70/30)  - PPT MTG'S = (12 MTG'S) (12 UNITS) (2 HRS)  - PDT MTG'S = (12 MTG'S) (12 UNITS) +  (8 HRS) (10 UNITS)  = 120 HRS A  GOT. REVIEW = (8) (10) + 6(10) = 240 HRS A		
J. DANG  CHE BY  ASSUME "HOURLY METHOD" WAS USED:  PARED: 71/2012 > 71/2013: 1 YEAR  - PER UPLATED PEAR DATED 9/19/2011:  TOTAL REGUESTED HOURS = 2619 HRS  = 1.5 PY'S  - LEAD P.E. = 20 PY'S  - LEAD P.E. = 20 PY'S  - ASSIST. P.E. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (70/30)  3.0 F.U. = 1.3 PY'S  - PDT MTG'S = (12 MTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  8 HRS (10 UNITS)  = 120 HRS A  GON. REVIEW = (8) (10) + 16 (10) = 240 HRS A		
* ASSUME "HOURLY METHOD" WAS USED:  PARED: 71/2012 > 71/2013: 1 YEAR  - PER UPDATED PEAR DATED 9/10/2011:  TOTAL REQUESTED HOURS = 2619 HRS  = 1.15 PY'S  - LEAR P.E. = 20 PY'S  - ASSIST. P.E. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (70/30)  = 70/2 30/2  - PPT MTG'S = (12 MTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  (8 HRS) (10 UNITS)  = 120 HRS A  GON. REVIEW = (8) (10) + 6(10) = 240 HRS A		1 DANG 9/16/2011
* ASSUME "HOURLY METHOD" WAS USED:  PARED: 71/2012 > 71/2013 : 1 YEAR  - PER UNIATED PEAR DATED 9/19/2011:  TOTAL REQUESTED HOURS = 2619 HRS  = 1.5 PY'S =  - LEAP P.E. = 2.0 PY'S  - ASSIST. PE. = 1.0 PY  - TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (70/30)  - POT MTG'S = (12 MTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  30% REVIEW = (4 HRS) (10 UNITS) +  (8 HRS) (10 UNITS)  = 120 HRS a  60% REVIEW = (8) (10) + 16(10) = 240 HRS a		CHK. BY DATE
PARED: 7/2012 → 7/2013: 1 YEAR  - PER UPPATED PEAR DATED 9/10/2011:  TOTAL PEGLESTED HOURS = 2619 HRS  = 1.5 PY'S  - LEAD P.E. = 2.0 PY'S  - AGSIST. PE. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (79/30)  = 70/6 320/.  - PDT MTG'S = (12 NTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  (8 HRS) (10 UNITS) +  (8 HRS) (10 UNITS)  = 120 HRS		
PARED: 7/2012 → 7/2013: 1 YEAR  - PER UPPATED PEAR DATED 9/10/2011:  TOTAL PEGLESTED HOURS = 2619 HRS  = 1.5 PY'S  - LEAD P.E. = 2.0 PY'S  - AGSIST. PE. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (79/30)  = 70/6 320/.  - PDT MTG'S = (12 NTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  (8 HRS) (10 UNITS) +  (8 HRS) (10 UNITS)  = 120 HRS		
PARED: 7/2012 → 7/2013: 1 YEAR  - PER UPPATED PEAR DATED 9/10/2011:  TOTAL PEGLESTED HOURS = 2619 HRS  = 1.5 PY'S  - LEAD P.E. = 2.0 PY'S  - AGSIST. PE. = 1.0 PY  TOTAL = 3.0 PY'S  - FUNCTIONAL UNITS (79/30)  = 70/6 320/.  - PDT MTG'S = (12 NTG'S) (12 UNITS) (2 HRS)  - DISTRICT CIRCULATION:  (8 HRS) (10 UNITS) +  (8 HRS) (10 UNITS)  = 120 HRS	* ASSUME "HOVELY NE	ETHOR LIKED:
- PER UPLATED PEAR DATED = 7/10/2011:  TOTAL REGUESTED HOURS = 2619 HRS  = 1.5 PY'S		
- PER UPLATED PEAR DATED = 7/10/2011:  TOTAL REGUESTED HOURS = 2619 HRS  = 1.5 PY'S	• PA ( 50 · 7/1/2012	> 7/1 /2 13 1 YEAD
TOTAL PRODESTED HOURS = 26 19 HRS  = 1.5 PY'S	17/20/2	
TOTAL PRODESTED HOURS = 26 19 HRS  = 1.5 PY'S	D=0 1,0047=0 0=	5 0 DATEO 9 16 211 ·
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- FUNCTIONEL UNITS (70/30)  3.0   F.U.   = 1.3 PY'S	- ASSIST. PE. =	1.0 PY
- FUNCTIONEL UNITS (70/30)  3.0   F.U.   = 1.3 PY'S		
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	POSTED BY DATE	POSTED TO

# STATE OF CALIFORNIA $\cdot$ DEPARTMENT OF TRANSPORTATION **QUANTITY CALCULATIONS**

CEM-4801 (REV 11/1992) CT# 7541-3520-0

2/4

JOB STAMP	ITEM	FILE NO.
	LOCATION	26980K SEGREGATION YES
	200/1/10/1	NO
	CALC. BY	DATE
	J. DANG	9/16/11 DATE
		5,50
90% REVIEW = (12)(	10)+ (24) (10) = 360+	185
TOTAL	= 720 +125	
	= 0.41 PY's	
- DOF REVEW !	2 MONTHS FULL-TIME	
	) 2 PY	
= 0	7	
_ DRAFTING :		
TOTAL # PLAN	SHEETS = 110 4 SEA	SHEETS ON
	NECT	PAGE
= 110 (8 HR	S/SHEET()	
	- Silver	
= 880 HRS		
2 0.5 PY		
POSTED BY DATE	POSTED TO	

# STATE OF CALIFORNIA $\cdot$ DEPARTMENT OF TRANSPORTATION **QUANTITY CALCULATIONS**

CEM-4801 (REV 11/1992) CT# 7541-3520-0

3/4

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UTIL. PLANS		=		5						
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# STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION **QUANTITY CALCULATIONS**

CEM-4801 (REV 11/1992) CT# 7541-3520-0

JOB STAMP	ITEM	FILE NO.
	LOCATION	26980K SEGREGATION YES
	CALC. BY	DATE
	J. DANG	9/16/2011 DATE
- SURVEYS : 40 HR		
= 80 +4	RS = 0.05 PY	
TETAL = 3.0 +	1.3 + 0.2 + 0.41 + 0.2 + 0	0.5 +0.05
PSPE		
= 5.65	PY'S SAY (5.7 PY	15
· CONSTRUCTION PHASE	: 3/1/16 -> 3/1/1	7: I YEAR
R.E. = 1.0 P	*	
ASSIST RE = 1.0 PY		
A551ST RE = 1.0 PY		
ASSOC. STATE = 0.5	PY	
	<del>                                     </del>	
TOTAL = 2.5	PYS	
• R/W ENGR. : 284	- HRS 4 PER UPDAT	FO I
	PY WORK PLAN DA	
= 0.16	WORK PLANT OF	AED 417/2011
=> TOTAL PROJECT SUPP.	orts (PYS)!	
PA = F0	= 1.5	
BFE	= 5.7	
CONSTRUCTION	= 2.5	
R/W ENGR.	= 0.2	
GRAND TOTAL	= (9.9 PT/s) -	
POSTED BY DATE	POSTED TO	

Co CC Rte 242 PM 0.0/3.4

	A	ttention	: Jonathan Dang	EA 26980K
E.		ENID	Project Engineer	Doodway Dohok (DCCD Dofrockor)
<u>F)</u>	com:	ENID Bight	of Way Resource Manager	Roadway Rehab (PSSR Refresher) D.S. #5992 (UPDATED)
		Kigiit	or way resource manager	D.S. #3992 (OFDATED)
Sı	ubjec	t: Curr	rent Estimated Right of Way Costs	
w	e rec	eived fi	pleted an estimate of the right of way costs com you on August 24, 2011 wing assumptions and limiting conditions.	for the above referenced project based on map
[	]	1.	The mapping did not provide sufficient deta required.	il to determine the limits of the right of way
[	]	2.	The transportation facilities have not been s determine the damages to any of the remain	•
[	]	3.	Additional right of way requirements are an preliminary nature of the early design requirements	•
	]	4.		right of way costs previously incurred on the ght of way costs for programming purposes.
[	]	5.	We have determined there are no right of w project at this time, as designed.	ay functional involvements in the proposed
fre (P of of	ay re eewa YPS the p	quiremony agreed CAN no project. Itemnation	ents (PYPSCAN node No. 224), necessary ements have been approved. From the date ode No. 265), we will require a minimum of Shorter lead times will require either more	months after we begin receiving final right of nvironmental clearance has been obtained, and of receipt of final right of way requirements months prior to the date of certification right of way resources or an increased numbers may reflect adversely on the District's other
				( ma
				Right of Way Resource Manager
At	tachi	ments:		right of viay resource intuitages
		[Y]	Right of Way Data Sheet – Page One (alway Right of Way Data Sheet – All Pages (requiacquired) Utility Information Sheet Railroad Information Sheet	

T0: Advance Planning-PSR II

01-01-01

EA: Project ID: 26980K 04

# **RIGHT OF WAY DATA SHEET**

Page 1 of 5

TO:	Off	ice of Advance Planning	Date	8/31/2	011	D.S. #	59	92	
			Dist.	04	Co.		Rte 242	PM_	0.0/3.4
A TT. 1	-	DEDT DI ANICO	EA	04-2698					
AIIN:	RU	BERT BLANCO	Proje	ct Descri	ption: <u>I</u>	Roadywa	y Rehab.		
SUBJE 1.	ECT:	Right of Way Data - Alternate Right of Way Cost Estimate:	No.						
				Current (Future		E	Escalation Rate		Escalated Value
	A.	Acquisition, including Excess Lands, Damages, and Goodwill			\$0.00		%	_	\$0.00
		Project Permit Fees						_	\$0.00
		Grantor's Appraisal Cost						_	\$0.00
	B.	Utility Relocation (State Share)		\$5,0	00.00		%	_	\$5,000.00
	C.	Railroad (from page 6)						<u> </u>	\$0.00
	D.	Relocation Assistance		, w	\$0.00		%		\$0.00
	E.	Clearance Demolition			\$0.00		%		\$0.00
	F.	Title and Escrow Fees			\$0.00		%	_	\$0.00
	G.	TOTAL ESCALATED VALUE							\$5,000.00
	Н.	Construction Contract Work			\$0.00	,			
2.	Ant	icipated Date of Right of Way	Certific	ation		8/.	2014		
3.		Parcel Data:							
		Type <u>Dual/Appr</u>		<u>Utilities</u>		<u>F</u>	RR Involvements		
	X A		U4-1 -2				None C&M Agrmt		X
	В		-3				Svc Cont.		
	С		-4				Design	_	
	D	VVVV	U5-7	2			Const.	_	
	E F	XXXX XXXX	-8 -9			Ł	ic/RE/Clauses		
			Ŭ.			<u> </u>	/lisc R/W Work		
						F	RAP Displ		0
							Clear Demo		0
	Total	0					Const. Permits		0
						C	Condemnation		0
		ht of Way	No. E	xcess Pa	arcels /	1	Excess		
Enter F	PMC	S Screens <u>0/3////</u>	Ву	/n.C	KIN	RT .			
Enter A	AGR	E Screen (Railroad Data Only)				By_			

Exhibit EA:

01-01-01

Project ID:

26980K 04

Page 2 of 5

4.	Are there any maj Yes	or items of c No	onstruction	contract worl (If yes, ex				
5.	Provide a general major improveme No right of way re	nts critical or			cess la	nds requi	red(zonir	ng, use,
6.	ls there an effect of Yes ☐	on assessed Not Sigr		(If yes expla	in) No	₽		*
7.	Are utility facilities If yes, attach Utilit	_	-		Yes )	<b>V</b>	No 🗆	
8.	Are railroad faciliti If yes, attach Railr	-	-		Yes ·06)		No 🕟	Ī
9.	Were any previous Yes ☐ (If yes, attach mer	None ev	vident 🔽					
10.	Are RAP displace (If yes, provide the	•		Yes [	7	No I	₹	
	No. of single famil	у	No. o	f business/no	n profit			
	No. of multi-family  Based on Draft / F  anticipated that su  Last Resort Housi	inal Relocati	— on Impact S		•			it is
11.	Are material borro (If yes, expalin)	w and / or dis	sposal sites	required?	Yes		No	ᅜ
12.	Are there potential (If yes, expalin)	relinquishm	ents / aban	donments?	Yes	П	No	⊽
13.	Are there any exis (If yes, expalin)	ting and/or p	otential Airs	space sites?	Yes	Г	No	⋉

				•	Page 3 of 5
14.	Are there Environmental Mitigation costs? (If yes, explain)	Yes	П	No	V
15.	Indicate the anticipated Right of Way sched if District proposes less that PMCS lead time project advancement are anticipated.)		•		•
	PYPSCAN lead time (from Regular R/W to	project o	certification)	6	_ months.
16.	Is it anticipated that all Right of Way work because it is an interest of the second	pe perfori (If no, dis	•	RANS sta	ff?

Project ID:

EA:

01-01-01

26980K

04

01-01-01

EA:

26980K

Project ID:

04

Page 4 of 5

# **Assumptions and Limiting Conditions**

0	This data	sheet was	completed	without a	hazardous	waste/materials	report.
---	-----------	-----------	-----------	-----------	-----------	-----------------	---------

Information on the provided by		eet was based on maps ert Blanco on 8/24/2011
Evaluation Prepa	ared By:	Renata Frey
Right of Way:	Name	Renata Frey Date 8/31/11
Railroad:	Name	Tat 9 Date 9-31-11
Utilities:	Name	Just Muniste Date 8-31-11
		Recommended for Approval:
		Right of Way Capital Cost Coordinator

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set fourth, and find this Data Sheet complete and current.

Chief, W Appraisal Services

9-7-11

Date

01-01-01

EA:

26980K

04

Project ID: Page 5 of 5

# **UTILITY INFORMATION SHEET**

1.		ocated within project limits: Comcast, CCCSD, CCWD	
2.	Facilities po None	itially impacted by project (if known, include Owners(s) & facility type(s)):	
3.	Anticipated	Drkload:  X Utility Verification required Positive Identification Utility Relocation Other (Specify)	
4.		mation concerning anticipated utility involvements (include limiting condition addressing likelihood that conflicts will occur);	າຣ
		olves possible relocation of electric transmission facilities X'd, Data sheet should be forwarded to environmental)	
5.	PMCS input	formation	
	U4-1 _	Owner Expense Involvements	
	U4-2 _	State Expense Involvements (Conventional, No Fed Aid)	
	U4-3 _	State Expense Involvements (Freeway, No Fed Aid)	
	U4-4 _	State Expense Involvements (Conventional or Freeway, Fed Aid)	
	U5-7	2 Verifications - without involvements	
	U5-8	Verifications - 50% involvements	
	U5-9	Verifications resulting in involvements	
	_		
	NOTE: The	m od U-4's must equal the sum of ½ of the U5-8's and all of the U5-9's.	
	ESTIMATED	TATE SHARE OF COSTS \$ 5000	
(	Perepared b	Leo Munneke 8/3/// tility Coordinator Date	

# Memorandum

Flex your power!
Be energy efficient!

To: ROBERT BLANCO

District Branch Chief

Office of Advance Planning - PSR II

Attn. Jonathan Dang

Date: Sep

September 1, 2011

File.

04-CC 242 PM 0.0/3.4

04-26980K

Expedited 2012 SHOPP PID Candidate - CAPM

From:

PAULA KINDINGER-WILCOX

Materials Design/Engineer

Engineering Services I-Materials A

Concurred by:

FARAH BIRANG, P.E.

District Branch Chief, WPS

Engineering Services I - Materials

Subject: CAPM Preliminary Materials Recommendations for PID

This memo is in response to your request to provide your office with preliminary Materials Recommendations for a CAPM project which proposes to preserve the existing roadway by replacing failed PCC slabs and grinding the whole width of the PCC pavement, digging out and replacing failed Asphalt Concrete pavement on the mainline and all ramps, and overlaying the AC pavement within the project limits. This project also proposes to reconstruct failed AC shoulders on the mainline and on SB Olivera Rd. On-ramp

### **EXISTING FACILITY**

Route 242, at the above location, is a 6 lane divided highway with substandard shoulder widths. In each direction of travel, the roadway consists of an AC no.1 lane with the 2 outside lanes consisting of PCC. The shoulders are also AC. Based on a review of our Materials Files and the available as-builts, this portion of Route 242 was originally built in 1962 under contract 4TOH1103 with 2 lanes in each direction consisting of 0.67' PCC / 0.33' CTB(B) / 1.0' AS(2). The shoulders were constructed of 0.25' AC(A) / 0.75' AB(2) / 1.0' AS(2). Ramps were also constructed under this contract with 0.25' AC(A) / 0.67' CTB / AS(2). They include Solano on and off ramps, Willow Pass Rd on and off ramps and Concord Ave NB on and SB off. The inside lane was constructed in 2001 under contract 228351 with 180 mm AC / 195 CTB(A) / 205 or 305 mm Lime Treated Subgrade, depending on the location. In the year 2000, AC auxiliary lanes were added in both directions, from Concord Ave to Grant / Solano Way, under contract 228294. The auxiliary lanes were constructed of 0.40' to 0.60' AC(A) / 0.60' to 0.80' AB(3) /

Robert Blanco September 1, 2011 Page 2

0.75' to 1.05' AS(4) with an ATPB layer and edge drains in the area near the sound wall on the SB side. Also in this contract Concord Ave NB and SB on and off ramps and the Grant / Solano SB on and off ramps were constructed with 0.50' AC(A) / either ATPB or AB(3) / AS(4). Edge drains were placed on most of those ramps.

The NB PCC between PM 1.5 to 1.7 and PM 2.5 to the end of the route was overlaid with an unknown thin AC layer.

# **EXISTING CONDITIONS**

Based on our field observations on August 22 and 25, 2011, review of the Pavement Condition Survey and review of the Roadway Explorer, we have noted the following problems with the existing pavement. According to the attached 2007 Pavement Condition Report (PCR), there are many locations with an unacceptable Internal Roughness Index (IRI); an acceptable IRI is below 170.

- During our site visit we noticed the PCC portion of Highway 242 appears to be in poor condition in some areas, with a lot of stage 3 cracking in the no. 3 lane and also a moderate amount of 3<sup>rd</sup> stage cracking in the no. 2 lane along with faulting and large transverse cracks. The PCC has been patched in many locations; some patching was done with AC and some with concrete. There are also a lot of sealed cracks visible.
- The inside AC lane appears to be in fair to good condition with a few visible cracks. The PCC roadway with the thin AC layer has joints reflecting through the AC near the Olivera off-ramp along some raveling, alligator cracking and a few large transverse cracks.
- Also noted, is the condition of the ramps within the project limits. While most ramps are in fair to good condition with only slight alligator cracking, Olivera SB on-ramp is in poor condition. The ramp has a slope that is slipping, and the shoulders seem to be pulling away from the traveled way and are crumbling apart.
- The outside AC shoulders on the mainline are in good to poor condition with an extensive amount of cracking, potholes, and rutting in the bad areas.

## PAVEMENT RECOMMENDATIONS

#### **AC Preparatory Work**

**A.** 

- 1. Conduct a field review and locate specific areas of severe distress identified by alligator "B" or "C" cracking, rutting greater than 1" and/or loose and spalling pavement.
- 2. Dig out and repair with HMA-A, the distressed localized areas to the bottom of the AC layer or up to a maximum of 0.50' in depth, whichever is less. However, for the areas with severe alligator cracking or potholes, it will be necessary to dig out the full depth of the AC.

3. Clean and seal all cracks wider than 1/4". Squeegee off any excessive crack sealant on the surface.

В.

1. Repair the transverse crack at approximately PM 1.7 in the NB direction. Dig out to the bottom of the AC layer and 5' feet on each side of the crack, replace with HMA-A and then follow the AC mainline recommendations below.

#### **AC MAINLINE**

- Where the No 1 lane is adjacent to PCC lanes; cold plane the existing pavement to a depth of 0.20' and replace with 0.20' RHMA-G
- In the areas which are PCC with an AC overlay; use the following recommendation from edge of pavement to edge of pavement.
  - o Place 0.10' HMA-A, then place a Geosynthetic Paving Mat before overlaying the pavement with 0.15' RHMA-G, this will help retard the joints reflecting through the AC.

## **PCC MAINLINE**

All lanes of existing PCC pavement shall be ground to correct poor ride quality as the result of faulting, slab curls, and irregular slab replacement surfaces.

Prior to grinding we recommend:

- All slabs with 3rd stage cracking should be removed and replaced, excluding the existing CTB layer. In order not to damage the adjacent slabs and CTB base, the slab removal techniques as described in the September 2008, Caltrans Slab Replacement Guidelines should be used.
  - 1. If slab removal causes excessive damage, such as significant removal of the CTB or excessive fracturing of the CTB, the entire base must be removed and replaced with rapid strength concrete (RSC).
  - 2. We recommend using RSC for slab replacement due to the anticipated short construction window. The RSC should be placed in split pour with a bond breaker between RSC layers if both the CTB and the PCC slab are replaced. We recommend reserving additional funds of 10% of slab replacement and cost for replacing the CTB layer if necessary.
- Slab Repair: We recommend repairing spalls and corner cracks and routing, cleaning and sealing all other cracks wider than 1/4"

Robert Blanco September 1, 2011 Page 4

## **MAINLINE SHOULDERS**

- Shoulders in fair to good condition next to the PCC lanes: Cold plane 0.15' and replace with 0.15' RHMA-G
- Shoulders in the AC sections should be treated with the same CAPM solution as the adjacent AC mainline.
- Shoulders in poor condition: Reconstruct with the following section\*:

We will assume an R-value of 15 and use a TI of 9 which is according to the document, <u>Expectations for Pavement SHOPP PID Documents</u>, dated 08/26/2011 by Bill Farnbach. When this project is scheduled and goes to PS&E, we will verify the R-value by sampling and testing the soil.

Design Factors: TI = 9,  $R_v = 15$ , G.E. = 2.45

Shoulders

G.E.

1.10' HMA-A

2.51'

# **APPROACHES and DEPARTURES**

Based on our field review, we believe most approaches and departures need work as a part of the CAPM project. We recommend contacting the Office of Structures for final recommendations regarding rehabilitation and/or retrofitting with new approach slabs.

## **RAMPS**

# 1. SB Olivera Rd. On Ramp

- We recommend contacting the Geotechnical Department regarding the slope slipping on this ramp in order to investigate possible causes.
- Reconstruct the shoulders of this ramp using the following shoulder section:

Design Factors: TI = 9,  $R_v = 15$ , G.E. = 2.45

<sup>\*</sup> There may be retrofitted edge drains in the existing shoulder sections, please remove and do not replace them.

Robert Blanco September 1, 2011 Page 5

	Shoulders	<u>G.E.</u>
	0.20' RHMA-G	
	0.70 HMA-A	2.03' (GE for total HMA)
	0.50' AB(2)	0.55'
Total	1.40'	2.58

• Place 0.20' RHMA-G over the existing traveled way, if there is a need to maintain the existing profile, we recommend cold planing the existing pavement to depth of 0.20' and replacing with 0.20' RHMA-G.

# 2. All Ramps except Olivera Rd. SB On Ramp

- Place 0.15' of RHMA-G on ramps with no profile restrictions
- Where there is a need to maintain the existing profile we recommend cold planing 0.15' of the existing pavement and replacing with 0.15' RHMA-G

## Notes:

RHMA-G has temperature constraints, the atmospheric temperature must be at least 55 °F when RHMA is spread and compacted and the surface temperature must be at least 60 °F. Since this area can be cool and foggy, even during the summer nights, the project must be scheduled at a time when RHMA placement will be successful.

If you have any questions, please call Paula Kindinger-Wilcox at 286-4692.

c: PKindinger-Wilcox, Route File, Daily File,



# PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

## **Project Information**

District	County	Route	PM	EA			
04	CC	242	0.0/3.4	26980K			
Project Title	Project Title						
Roadway Rehabili	tation						
Project Manager Phone #			Phone #				
Patrick Pang	Patrick Pang			510.286.5080			
Project Engineer			Phone #	Phone #			
Robert Blanco 510.286.5676				6			
Environmental Office Chief/Manager			Phone #	Phone #			
Melanie Brent			510.286.523	510.286.5231			
PEAR Preparer			Phone #	Phone #			
Peter Frey			510.622.883	5			

# **Project Description**

#### **Purpose and Need**

The purpose is to provide preventative treatments to preserve the good condition of the existing roadway pavement and to provide pavement rehabilitation to extend its service life. The need is to improve the poor condition of the existing facilities, and improve safety.

#### **Description of work**

In Contra Costa County in the city of Concord on Route 242 from I-680 to Route 4, this project proposes to replace the failed PCC with 3<sup>rd</sup> stage cracks, repair spalls, seal cracks, grind the whole width of the PCC pavement, repair failed outside shoulders, overlay on-ramp and off-ramps with AC, improve drainage work, install Metal Beam Guard Rails, remove and replace Type A dikes with Type E dikes at specific locations, upgrade curb ramps and pedestrian facilities to ADA standards, and bring the existing bridge railings on bridges within the project limits to current standard.

#### **Alternatives**

The build alternative includes the elements described above. The no build alternative leaves the existing facility unchanged.

# Anticipated Environmental Approval

CEQA	- J	NEPA	
<b>Environmental Determination</b>			
Statutory Exemption			
Categorical Exemption	$\boxtimes$	Categorical Exclusion	
Environmental Document			
Initial Study or Focused Initial		Routine Environmental Assessment	
Study with proposed Negative		with proposed Finding of No	
Declaration (ND) or Mitigated ND		Significant Impact	
		Complex Environmental	
		Assessment with proposed Finding	
		of No Significant Impact	
Environmental Impact Report		Environmental Impact Statement	
CEQA Lead Agency (if determined):			
The California Department of Transpo	ortatio	on (Caltrans) is the lead CEQA	
Agency for the project. FHWA assign	ed, an	d Caltrans has assumed, all of the	
United States Department of Transpor	rtation	(USDOT) Secretary's	
responsibilities under NEPA.			
Estimated length of time (months) to	obtain	environmental approval:	12
Estimated person hours to complete ic	lentifi	ed tasks:	2619

#### **PEAR Technical Summaries**

**Farmlands/Timberlands**: There are farmlands adjacent to the project area. The proposed project will not require right-of-way currently under cultivation or used for grazing.

Community Impacts: The proposed project will not result in adverse impacts on population growth/sprawl, local economy, municipal or community services, utility services, community character, or existing or proposed land use. There are no Title VI issues, adverse impacts to minority and low-income populations expected.

Visual/Aesthetics: The proposed project is not expected to adversely affect any scenic or visual resources.

Cultural Resources: A records search and a review of in-house resources will be required. We do not anticipate any adverse effects.

Water Quality and Storm Water Runoff: This project must comply with the Department Statewide National Pollutant Discharge Elimination System (NPDES) Permit (Order No.: 99-06-DWQ) and the Construction General Permit (Order No.: 2009-0009-DWQ), both issued by the State Water Resources Control Board (SWRCB). Under the auspices of the SWRCB, the San Francisco Bay Regional Water Quality Control Board (Region 2) has authority to enforce NPDES and Construction General Permit requirements. To comply with these permits, the Department shall consider and incorporate temporary and permanent Best Management Practices (BMPs) using Best Available Technology (BAT) to the Maximum Extent Practicable (MEP), in order to minimize, or prevent, any potential increased impact to existing water quality. Per the Construction General Permit, development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) is required; this shall be prepared per Department Standard Special Provision (SSP) 07-345. The SWPPP is developed by the Contractor, and approved by the Department, prior to commencement of construction. In addition to the general permits mentioned above, it should be anticipated that a 401 Certification, issued by Region 2, will be required. This is to be anticipated, due to proposed drainage work. If this is required, then there may be a conflict with the CE designation.

**Hazardous Waste/Materials**: The only hazardous waste issue in this project is the bridge railings. If they are to be replaced, they will need to be tested. There are no other hazardous waste issues in this project.

**Air Quality**: The Project is exempt from the requirement of air quality conformity determination. An air quality study is not required.

**Noise and Vibration**: The Project has no traffic noise impacts. A noise study will not be required.

#### **Biological Environment:**

Caltrans Biologist, Fernando A. Martinez performed a review of threatened and endangered species using the USFWS Endangered Species List website (<a href="http://www.fws.gov/sacramento/es/spp\_list.htm">http://www.fws.gov/sacramento/es/spp\_list.htm</a>) and the California Natural Diversity Database (CNDDB, California Department of Fish and Game) on September 1, 2011. This project occurs within the Walnut Creek and Vine Hill U.S. Geological Survey (USGS) quadrangles. Fernando assessed this location for potential biological constraints to the completion of this project using photographs and aerial images. A site visit will need to be conducted to further assess the project location.

#### Habitat

The proposed work area passes through a highly urbanized area of Contra Costa County. The highly urbanized area includes dense residential and commercial areas associated with the city of Concord. The vegetated areas in the adjacent shoulder and median consist of ruderal grass, low growing annual/perennial vegetation and sparse non-native

trees with small patches scrub. Trees and shrubs located within this right-of-way area are mainly highway landscaping, but may also contain a small number volunteer plants. A site visit will need to be conducted in order to finalize assessment for vegetative communities.

#### Flora/Fauna

The site was surveyed for federal and state listed plant and animal species habitats using USFWS and CDGF databases, aerial images and photographs. A site visit will need to be conducted in order to finalize assessments for listed plant or animal species. Flora and fauna is limited in the project location. Flora is limited to the median and shoulders. Proximity to SR 242 would limit the existence of fauna on the project site; however habitat disbursements for the California tiger salamander (Fig. 1) have been identified in proximity to the proposed project location.

Table 1. CNDDB results in Walnut Creek and Vine Hill USGS quadrangles.

Common Name	Scientific Name	Listing Status*		
Common Name	Scientific Name	Federal	State	
soft bird's-beak	Chloropyrin molle ssp. molle	Е	R	
Contra Costa goldfields	Lasthenia conjugens	Е	-	
Mason's lilaeopsis	Lilaeopsis masonii	-	R	
callippe silverspot butterfly	Speyeria callippe calippe	Е		
California red-legged frog	Rana draytonii	T	-	
Alameda whipsnake	Masticphis lateralis euryxanthus	Т	T	
salt marsh harvest mouse	Reithrodontomys raviventris	Е	Е	
vernal pool fairy shrimp	Branchinecta lynchi	Т	-	
California freshwater shrimp	Syncaris pacifica	E		
giant garter snake	Thamnophis gigas	Т	Т	
California tiger salamander	Syncaris pacifica	T	Т	
valley elderberry longhorn beetle	Desmocerus califonicus dimorphus	T		
delta green ground beetle	Elaphrus viridis	Т		
green sturgeon	green sturgeon	T		
delta smelt	Hypomesus transpacificus	T	Е	
Central Valley steelhead	Oncorhynchus mykiss	T	•	
Central Valley spring-run chinook salmon	Oncorhynchus tshawytscha	Т	T	
winter-run chinook salmon	Oncorhynchus tshawtscha	E	) C	
western snowy plover	Charadrius alexandrines nivosus	T	-	
California clapper rail	Rallus longirostris obsoletus	E	E	
California black rail	Laterallus jamaicensis coturniculus	-	Т	
California least tern	Sternula antillarum browni	E	E	

Caltrans concludes that this project will not have an effect to listed species because all work will be confined to existing paved footprints and disturbed road shoulders within existing Caltran's right of ways. Based on the project description no additional impacts will be imposed on any unpaved surfaces. Should there be any changes to these plans; the biologist will need additional site visits to determine any additional impacts. Should any rehabilitations or improvements be conducted off-pavement within any sensitive areas, agency coordination should be anticipated prior to any construction activities.

#### Wetlands/Water:

Any rehabilitations or improvements which may affect wetlands or waterways will require a site visit in order to finalize assessment based upon final plans. It is anticipated that the proposed project will be conducted on existing road surfaces that cross USACE and CDFG 1602 jurisdictional areas.

#### **Migratory Bird Treaty Act**

The Migratory Bird Treaty Act (MBTA; 16 U.S.C. 703-711) protects migratory birds from unlawful activities. Any work within the project limits during nesting season will require protections for Migratory Nesting Birds. Caltrans' constraints measures will provide protection for these species for this project (see Constraints section).

#### **Permits**

It is unlikely that permitting with USACE, CDFG, USFWS, and NOAA will be necessary as this project will be confined to the existing roadway, and areas to be impacted are unsuitable habitat for threatened or endangered species. However, should any work occur within 1602 jurisdiction formal consultation should be expected due to anadromous fish species and proximity to California tiger salamander occurrences (Fig. 1).

#### **Constraints**

The following measures are necessary to protect biological resources:

• Contractors should utilize Caltrans standard Best Management Practices (BMPs).

- Contractors will conduct all pavement rehabilitations and improvements while operating on existing paved footprints.
- Any off-pavement rehabilitation or improvements made will require further assessments, surveys, permitting and Section 7 consultation should be anticipated.
- Any waste materials or products (i.e. pavement grindings) shall be disposed of at an approved facility, or certified landfill
- All staging will occur within existing paved or gravel turnout areas. Any staging in vegetated areas (grass and low-growing vegetation) or offpavement will require additional assessments from a Caltrans biologist.
- Standard BMPs material shall be in place under any construction equipment being stored, refueled, or maintained at staging area.
- Contractors must implement Caltrans standard BMPs to ensure water quality and limit air borne erosion.
- Environmentally Sensitive Areas (ESAs), including special aquatic features will be identified by ESA (high visibility) orange fencing to be established by Caltrans biologist and the RE prior to construction.
- Any improvements or alterations to any drainage or culverts will require further assessments by a Caltrans biologist to establish any USACE and CDFG jurisdictional areas. Additionally, permitting measures should be anticipated for any work occurring within these areas.
- If clearing and grubbing is required, as a precaution, a Caltrans Biologist will need to conduct additional site assessments to rule out the presence of any species of concern.
- Biologist will need to conduct nesting bird surveys between February 1 and August 15 to comply with the MBTA. A Caltrans Biologist will need three days notice prior to commencement of construction activities to perform a survey for nesting birds.

It is in Caltrans opinion that by complying with these constraints that the proposed work at this location will not affect any listed species.

#### Further Inquires for Design/Construction

- Will there be a need for additional site assessments for staging locations?
- Will there be any effects to existing waterways with these improvements?

All design changes will require reassessment of biological resources and may delay project. Please forward all plans to the Office of Biological Sciences and Permits as soon as possible.

If you have any questions please contact Fernando Martinez at (510) 286-5999 or Christopher States at (510) 286-7185.

Context Sensitive Solutions: Context sensitive solutions meet transportation goals in harmony with community goals and natural environments. They require careful, imaginative, and early planning and continuous community involvement. There were no early planning activities and community involvement efforts that were undertaken during this initial phase of project development. The project, by its nature is not expected to conflict in harmony with community goals and the natural environment.

#### Disclaimer

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

## Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

Environmental Branch Chief

Project Manager

Date: 9/16/11

Date: 9/16/11

**REQUIRED ATTACHMENTS:** 

Attachment A: Environmental Technical Reports or Studies Required

Attachment B: PEAR Mitigation and Compliance Cost Estimate



# Attachment A: Environmental Technical Reports or Studies Required

Community Impact Study Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation Noise Study Air Quality Study Paleontology Wild and Scenic River Consistency Cumulative Impacts	Study or Report	Document Text Only	Not Anticipated
Growth Inducing/Indirect Impacts			$\boxtimes$
Cultural			
Archaeological Survey Report (ASR) Historic Resources Evaluation Report (HRER)			
Historic Property Survey Report (HPSR) Historical Resource Compliance Report SHPO / PRC 5024.5 Native American Coordination			
Other Finding of Effect: Data Recovery Plan:			X X
Memorandum of Agreement* (*if Federal Permit is required)			X
Hazardous Waste ISA (Additional) PSI Other Biological	□ ⊠ □	_ _ _	
Endangered Species (Federal) Endangered Species (State) Species of Concern	X X X	_ _ _	
(CNPS, USFS, BLM, S, F) Biological Opinion (USFWS, NMFS, State)	X		
Fish Passage Barriers Assessment Wetlands Invasive Species Natural Environment Study NEPA 404 Coordination Other	X   X   X  		

Permits		
401 Permit Coordination	X	
404 Permit Coordination	X	
1602 Permit Coordination	X	
City/County Coastal Permit Coordination		X
State Coastal Permit Coordination		X
NPDES Permit (402) Coordination	X	
US Coast Guard (Section 10)		X

## Attachement B: PEAR Mitigation and Compliance Cost Estimate\*

District 04	County CC	Route 242	PM 0.0/3.4		EA 26980K
Description of V	Work Roadway	Rehabilitation			4
Project Manage	r Patrick Pa	ang		Date	9-151
Prepared by	Peter Frey	y		Date	9-15-11

		Mitigation		Compliance
	Project Feature <sup>1</sup>	Enviro. Obligation <sup>2</sup>	Statutory Require. <sup>3</sup>	Permit & Agreement <sup>4</sup>
Fish & Game 1602 Agreement				
Coastal Development Permit				
State Lands Agreement				= =
NPDES Permit				
COE 404 Permit- Nationwide				
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping			<u> </u>	
Archaeological				
Biological				
Wetland/riparian				
Historical				
Scenic resources				
Asbestos Testing/Mitigation				
Other:				
TOTAL (Enter zeros if no cost)	TBD	TBD	TBD	TBD

Costs are to include all costs to complete the commitment including: 1) capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

<sup>&</sup>lt;sup>1</sup> Mitigation that Caltrans would normally do if not required by a permit or environmental agreement.

<sup>&</sup>lt;sup>2</sup> Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

<sup>&</sup>lt;sup>3</sup> Mitigation that Caltrans would not normally do and is not required by a permit or Enviro. Agreement, but is required by a law.

<sup>&</sup>lt;sup>4</sup> Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

<sup>\*</sup>Prepare a separate form for each practicable alternative in the PSR.

# TRANSPORTATION MANAGEMENT PLAN DATA SHEET (Preliminary TMP Elements and Costs)

Co/Rte/P M	CC-242-PM R0.0/R3.4	EA	26980k	Project Engineer	Jonathan Dang
Project					
Limit	In Contra Costa	County on	highway 242	between PM0.	0 to PM3.4
Project					
Description	Pavement R	<u>ehab</u>			
1) Public Ir		1.54.11			健
	a. Brochures and			_\$	
	o. Press Release				
	. Paid Advertisi	_			<u>,                                      </u>
	d. Public Informa		-	_\$	
	e. Public Meeting		Bureau		
	. Telephone Hot				
	g. Internet, E-m				
⊠ I	n. Notification to	•		dia di littiki da	
$\square$	(I.e. bicycle us i. Others	ers, peaes	trians with		
K3					55,000
´ —	Information St	_	ana (Fivad)	d	
<u></u>	a. Changeable M			<u>[</u>	· · · · · · · · · · · · · · · · · · ·
	o. Changeable M		gns (Portab		65,000
	. Ground Mount	_		_\$	
	d. Highway Advi	•		4	
<u></u>	e. Caltrans High	=		-	
	. Detour maps (			edestrianetc	
<u> </u>	g. Revised Trans		•		
	n. Bicycle comm	unity infor	mation		
Li	. Others			4	
2) Indidant	Managamant				
	: Management . Construction Z	'ana Enhan	and Enforce	amant	
⊠a	Program (COZ		icea Emorci		260,000
	o. Freeway Serv	•		<u> </u>	200,000
	c. Traffic Manag		m	_+	·
	d. Helicopter Su		***	d	•
	e. Traffic Surveil		ione		
	Loop Detector)			d	
☐ f	. Others	J.1.4 001 V	,		
Щ'					·

# TMP Data Sheet (cont.)

4) Co	nstruction Strategies		
	🛛 a. Lane Closure Ch	nart	
	b. Reversible Lane	s	
	c. Total Facility Clo	osure	
	d. Contra Flow		
	e. Truck Traffic Re	strictions	\$
	f. Reduced Speed	Zone	\$
	g. Connector and I	Ramp Closures	,
	h. Incentive and D	isincentive	\$
	i. Moveable Barrie	r	\$
	k. Others		\$
5) De	mand Management		
	a. HOV Lanes/Ram	nps (New or Convert)	\$
	b. Park and Ride L	ots	\$
	c. Rideshare Incen	itives	\$
	d. Variable Work F	łours	
	e. Telecommute		
	f. Ramp Metering (	(Temporary Installation)	\$
	g. Ramp Metering	(Modify Existing)	\$
	h. Others		\$
6) Alt	ernate Route Strategies		
	a. Add Capacity to	Freeway Connector	\$
	b. Street Improver	ment (widening, traffic signal	1
	etc)		\$
	c. Traffic Control C	Officers	\$
	d. Parking Restrict	ions	
	e. Others		\$
7) Otl	ne <u>r</u> Strategies		
	a. Application of N	ew Technology	\$
	e. Others		_\$
TOT	AL ESTIMATED COS	ST OF TMP ELEMENTS =	\$330,000.00
PR	EPARED BY	Marisa M-Kleiber	DATE <u>9/2/2011</u>
AP	PROVAL RECOMMENDED	D BY Shein Lin	DATE 9/2/2011

# RISK MANAGEMENT PLAN Dist-E.A.: 04-26980K CO-Rte-PM: CC-242-0.0/3.4 SHOPP 201.121 PAVEMENT REHABILITATION

Monitoring and Contra	Affected Responsibility M WBS Tasks (Task Manager)	Program Advisor Project Manager	Project Manager Project Engineer Program Advisor RVV Manager	. Policies
	Affected WBS Tasks	Program Advisor Project Manager	danager Engineer Advisor anager	- Pa
conse Strategy Response			Project N Project E Program R/W M	Env. Analysis Mgr. Project Engineer
Strategy Response				
Se	Actions including advantages disadvantages	Elevate issue to management for resolution	Determine needs early in future field reviews; factor in costs/impacts	Determine need for mitgation early during future field the rewes; factor in increased costs/fmpacts.
	Strategy	Acceptance	Acceptance	Acceptance
ysis	Risk Matrix	Probability Y	Probability K	Y T M J Y
Qualitative Analysis	Impact (41)	Moderate	Moderate	Low
Qual	Probability	Moderate	Moderate	Low
	Type	Scope	Cost	Cost
	Risk Trigger	Higher project cost due to additional proposed improvements could be a potential risk for project being considered for inclusion into 2012 SHOPP.	Field reviews would be needed to determine whether RW take and buildlikes relocation would required for the curb ramps upgrade locations.	Assuming the CE is updated without any changes. Thus, the paperoved PSSR will mext phase would be proceed directly in Design required to further investigate for any potential PA&ED Phase. No impacts, environmentally. PA&ED Enterest of investigate for any potential sassigned.
	SMART Column	A brief field review was conducted to redefine the scope of work for refreshing the project cost. Scope was generally the same, but quantities of improvements changed due to recent pavement rehab performed to the roadway. Also, ADA Curb Ramps upgrade, ramps reconstruction and new MBGR construction and new MBGR construction were also proposed and added to the scope of this	Subject to underground needed to determine utilities verifications, utility whether RM take and required.  The control of the cub is required for the cub results.	Assuming the CE is updated without any charges. Thus, the approved BSR will proceed directly in Design Phase, bypassing the PA&ED Phase. No PA&ED Phase. No assigned.
Identification	Threat/Opportunity Event	PID was approved on 10/2/2001 b program in 10/2/2001 b program. Dut not programmed, nor programmed, nor programmed, nor programming. Project scope, cost & schedule were outdated. No back up documents for project's quantities and costs estimate.	RWDS was completed on 92/1999. It was bounded, And additional proposed upgrade to existing cuch ramps & sidewalks may require additional rive take and and underground utilities reflocation. Despite the schedule constraint in refreshing this PSSR, there was no field review scheduled to further investigate the existing conditions of curb ramps.	The original PSSR is classified as a processor and programmatic Caregorical Exclusion for NEPA. The CE was issued and signed on 92291989 (CEAA) and 11/02/2000 (NEPA). It was outdated, bue to additional proprosed improvements, environmental environmental ederemination for this project might be changed.
	Functional Assignment	Program/ Project Management	Right of Way	Environmental
	Date Identified Project Phase	872211 PID	872211 PID	9/22/11 PID
	# (S)	ν-	۲ 2	و د
	Status (2)	Active	Dormant	Dorm ant

RISK MANAGEMENT PLAN Dist-E.A.: 04-2680K Co-Rte-PM: CC-242-0.03.4 SHOPP 201.121 PAVEMENT REHABILITATION

_	Date, Status and Review Comments				Sports	
Monitoring and Control	Status Interval or Date, Status Milestone and Review Check Comments					
Monitorir	Responsibility (Task Manager)	Environmental Engineering Manager Water Quality		Environmental Engineering Manager, Environmental Mitigation Manager		
Response Strategy	Affected WBS Tasks					
	Response Actions including advantages and disadvantages	Determine need for mitgation early during future field reviews; factor in increased costs/impacts.		Determine need for mitigation early during future field reviews; factor in increased costs/impacts.		
	Strategy	Acceptance		Acceptance		
Qualitative Analysis	Risk Matrix	Windschill(y)	VL L M H VH impact	E I Z	Probab V L M H VH	CONT.
	Impact	Low		Low		
	Probability	Low		Low		Committee of the Contract of the Contract of the
	Туре	Schedule	Cost	Cost	Schedule	
	Risk Trigger	Construction activities could pollule surface water bodies or cause band-side erosion.		Recent field review was mainly focused on the existing rigid and flexible pavements condition. No observation was made to the existing drainage system.		
	SMART Column	WPPP and Non-Storm aler Discharges autiennents would entify construction into Best Management actices (BMPs) to avoid pacts to surface waters.		4.		
Identification	Threat/Opportunity Event	Stormwater Pollution Sylventhon Plan (SWPPP) and special Provision for Non-Shorm Ind. Water Discharges might be required due major PAC/PCC rework anticipation.		Originally approved PSSR mentioned and allocated \$400k for	of drainged rehab, but there's specifically mentioned in were no project. Were no project and documents to specifically the proposed cost increase or decrease rehabilitation or inmovements.	
	Functional Assignment	Environmental Engineering Water Quality		Hydraulics		
	Date Identified ID # Project Phase	9/22/11		8/22/11	Old	
		4		ti S		-
	Status	Dormant		Dormant		

Dist-County-Route: <u>04-CC-242</u>



Caltrans*	Post Mile Limits: R0.00/R3.40 Project Type: Pavement Rehabilit Project ID (or EA): 26980K Program Identification: Phase: √ PID □ PA/ED	<u>ation</u>	
	□ PS&E		
Regional Water Quality Control Board(s): F	Region 2-San Francisco Bay Region		
<ol> <li>Is the project required to const</li> </ol>	sider incorporating Treatment BMPs?	Yes □	No √
2. Does the project disturb 5 or	more acres of soil?	Yes	No √
	than 1 acre of soil and not qualify for		
the Rainfall Erosivity Waiver?		Yes □	No √
	reate permanent water quality impacts?	Yes □	No √
<ol><li>Does the project require a no</li></ol>	uncation of ADL reuse	Yes □	No √
Estimate Construction Start Date: 3/1/20 Separate Dewatering Permit (if yes, permi Erosivity Waiver  This Short Form – Storm Water Data Repo	t number) Yes ☐ Permit # Yes √ Date: ort has been prepared under the direction tests to the technical information contains	of the followed herein an	No √ No □ wing d the data
upon which recommendations, conclusion Architect stamp required at PS&E.	ns, and decisions are based. Professional	Engineer or	Landscape
	7 - 244 (2) . [7]		09/12/20
longti	nan Dang, Registered Project Engineer		
	reviewed the stormwater quality design i	ceuse and fi	Date ind this
	to be complete, current and accurate:	ssues and n	na ans
$\gamma_{\ell}$	'~ 1 M		09/12/2011
[Stamp Required for PS&E only) তি Norma	an Gonsalves, District SW Coordinator or	Designee	Date